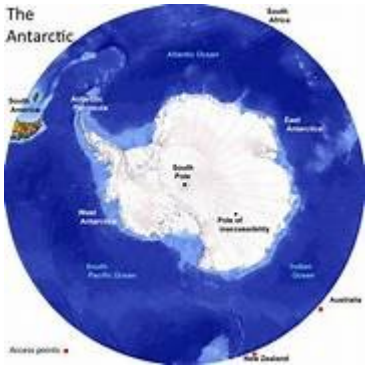
Ryan Padraig Kelly Antarctica


The
Antarctic
South Africa
Atlantic Ocean
South America
Antarctic Peninsula
East Antarctica
South Pole
West Antarctica
Pole of inaccessibility
South Pacific Ocean
Indian Ocean
Australia
New Zealand

Antarctica

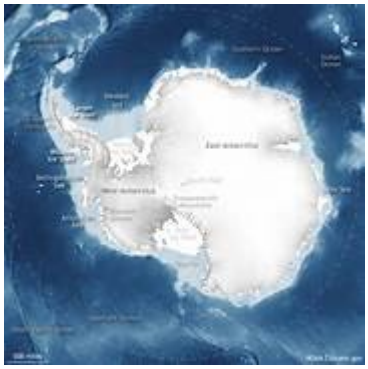
ANTARCTICA

Antarctica
South Atlantic Ocean
South Pacific Ocean
1000 Kilometers
1000 Miles

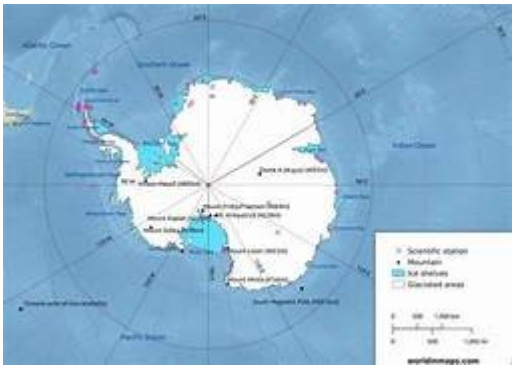
ANTARCTICA
GEOGRAPHY AND SCIENCE CENTERS
KEY

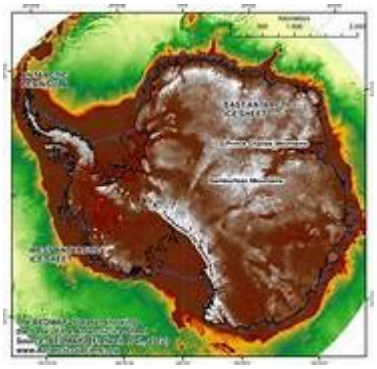
ANTARCTICA

Southern Ocean floor in unprecedented detail
Factorian Deep



ANTARCTICA



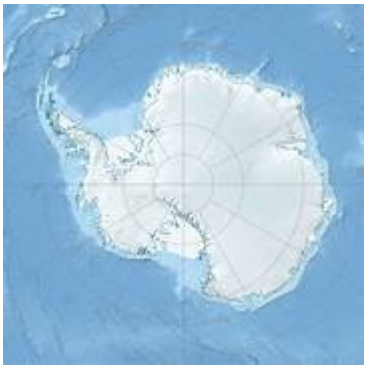


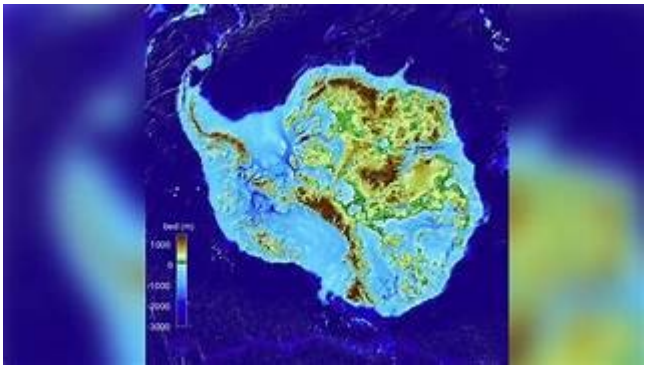
Weddell Sea
East Antarctic Ice Sheet
West Antarctic Ice Sheet
INDIAN OCEAN
Ross Sea
SEA PROTECTION

ATLANTIC OCEAN
INDIAN OCEAN
ANTARCTICA
PACIFIC OCEAN

Africa
South America
Atlantic Ocean
Madagascar
Falkland Islands
Weddell Sea
Southern Ocean
Antarctica
Antarctic Circle
Indian Ocean
SOUTH POLE
Pacific Ocean
Ross Sea
Tasmania
New Zealand

ANTARCTICA



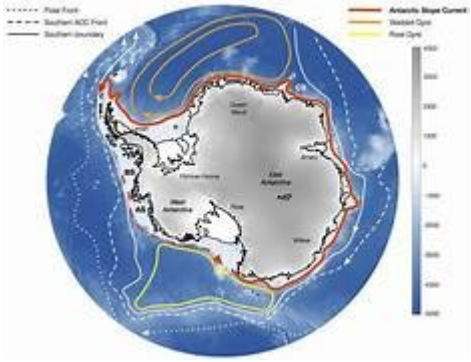


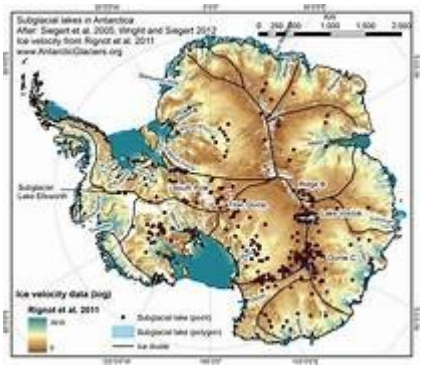
ANTARCTICA
ANTARCTICA

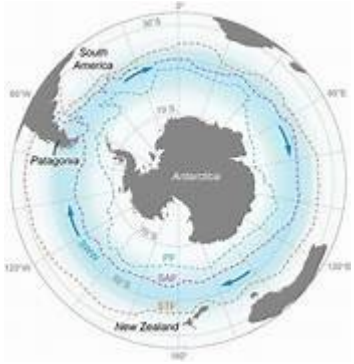
James Ross Island
EAST ANTARCTICA
WEST ANTARCTICA
Ross Ice Shelf
Cape Ross
Ross Sea
Ross Island
TRANSANTARCTIC (TAM)

SOUTHERN OCEAN
SOUTHERN OCEAN

Southern Ocean
South Orkney Islands
Weddell Sea
Graham Land
Queen Maud Land
Ronne Ice Shelf
Amery Ice Shelf
South Pole
Marie Byrd Land
Amundsen Sea
Ross Ice Shelf
Wilkes Land
Southern Ocean
Ross Sea
Victoria Land
Scott Island
Balleny Islands


Polar Front
Southern ACC Front
Southern boundary
Antarctic Slope Current
Weddell Cyclo
Ross Cyclo
East Antarctica
West Antarctica
A5
A6

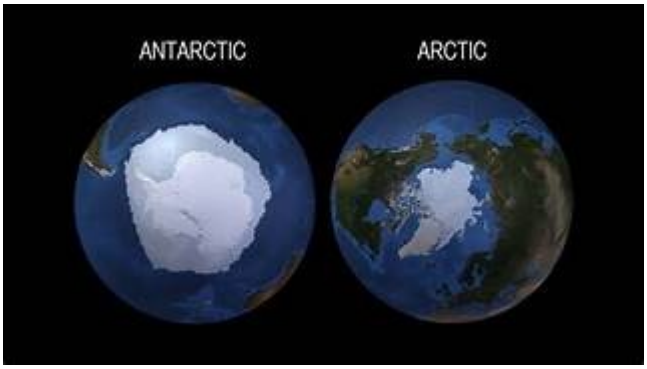

Subglacial lakes in Antarctica
After: Siegert et al. 2005, Wright and Siegert 2012
Ice velocity from Rignot et al. 2011
www.AntarcticGlaciers.org
0 250 500 1,000 1,500 2,000
Km
Subglacial Lake Ellsworth
Ice velocity data (m/y)
Rignot et al. 2011
Subglacial lake (point)
Subglacial lake (polygon)
Ice divide

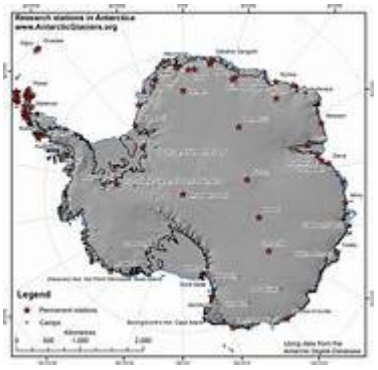

South America
Patagonia
Antarctica
SAF
STF
New Zealand

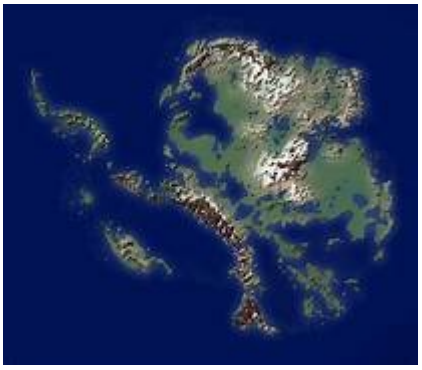
ARCTIC OCEAN
Arctic Circle
NORTH AMERICA
EUROPE
ASIA
ATLANTIC OCEAN
PACIFIC OCEAN
Tropic of Cancer
AFRICA
Equator
SOUTH AMERICA
INDIAN OCEAN
Tropic of Capricorn
AUSTRALIA AND OCEANIA
Antarctic Circle
SOUTHERN OCEAN
ANTARCTICA

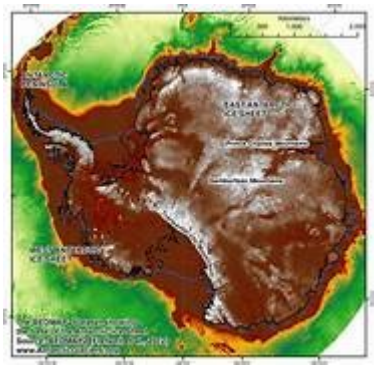
The Arctic

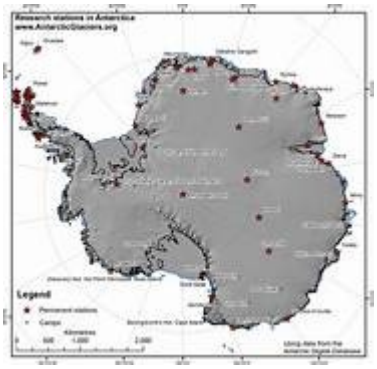
Antarctica

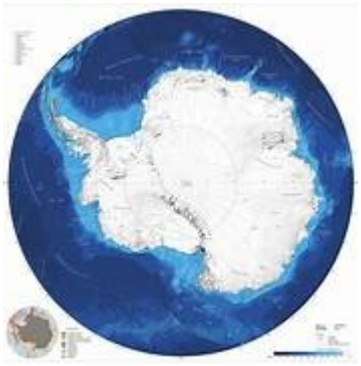

ANTARCTIC
ARCTIC


Research stations in Antarctica
www.AntarcticGlaciers.org
Legend
Permanent stations
Camps

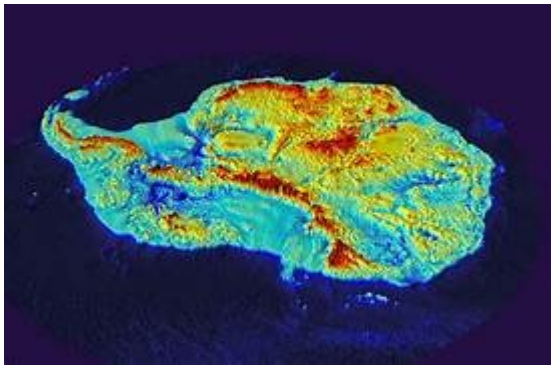


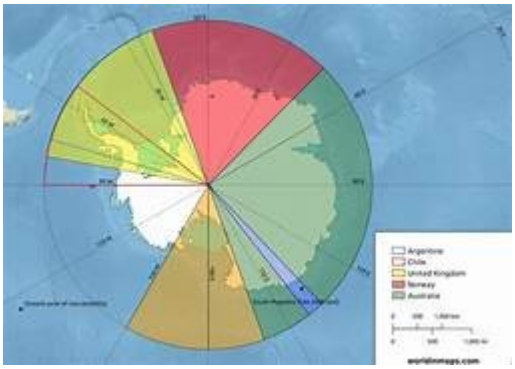


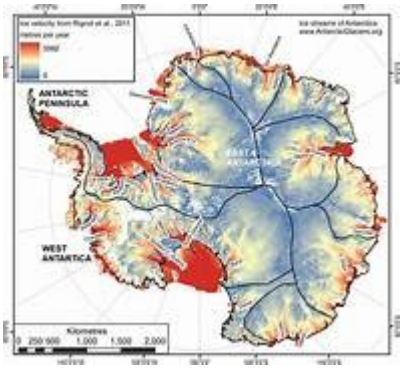

Research stations in Antarctica
www.AntarcticGlaciers.org
Legend



EAST ANTARCTICA
WEST ANTARCTICA
Transantarctic Mountains
Thwaites Glacier

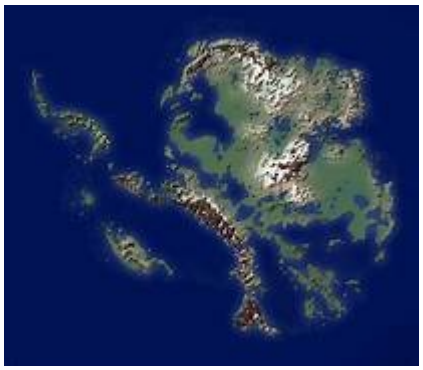


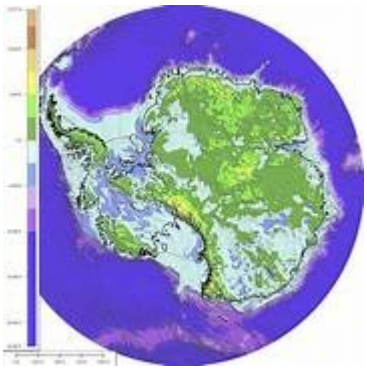

Argentina
Chile
United Kingdom
Norway
Australia


ANTARCTIC PENINSULA
WEST ANTARCTICA

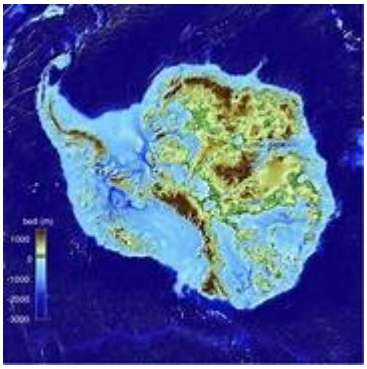
Maritime Antarctica
Continental Antarctica
Antarctic Bioregions

ANTARCTICA





South Atlantic Ocean
Georg von Neumayer
Gaussberg
Dakshin Gangotri
Novolazarevskaya
Aboa
Sanae
Halley
Brunt Ice Shelf
Weddell Sea
Rothera
Esperanza
Orcadas
Base Arturo Prat
Belgrano
Ellsworth Land
Queen Maud Land
Wilkes Land
Amundsen-Scott South Pole
Vostok
Marie Byrd Land
Ross Ice Shelf
Scott Base
McMurdo
Ross Sea
Russkaya
Transantarctic Mts
Casey
Davis
Mawson
Molodezhnaya
Syowa
Leningradskaya
Dumont d'Urville
South Pacific Ocean
Indian Ocean

Antarctica

Antarctica
Pacific Ocean
AUSTRALIA